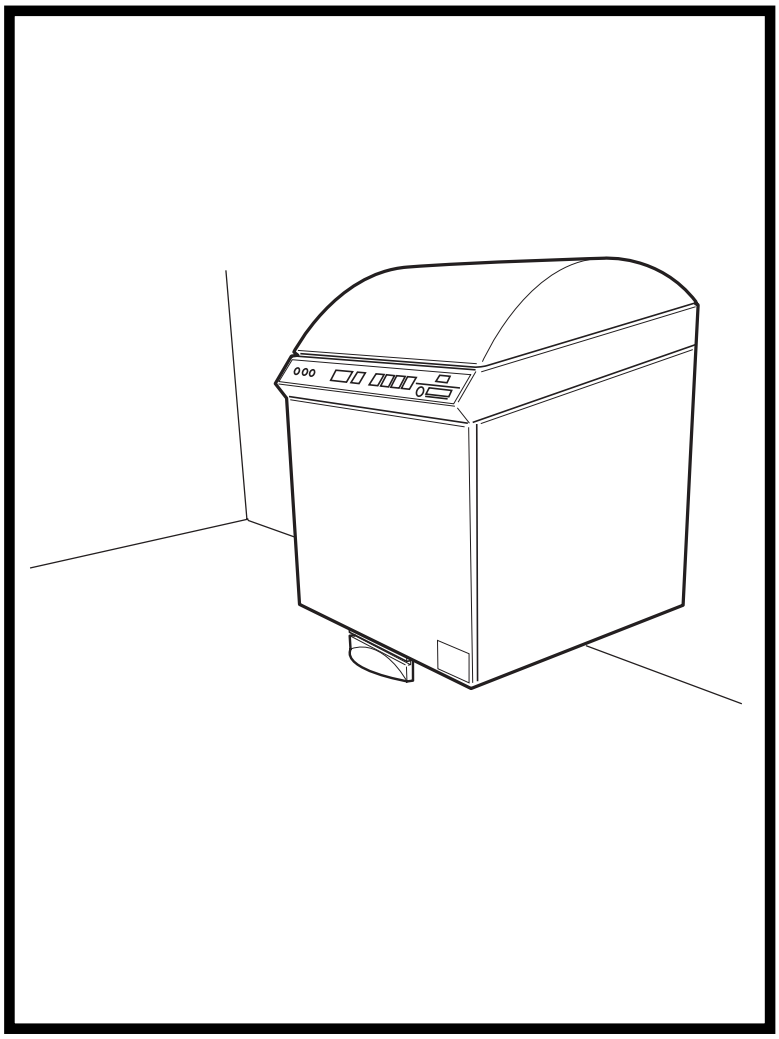
INSTALLATION INSTRUCTIONS



Wash disinfector S-606

Serial no. 970001-
5000375-00

GETINGE DISINFECTION

CE 0301

Produced: 1999

Foreword

These Operating Instructions are standard for all models referred to below:

Wall-mounted

Free-standing with tipping protection

The models are supplied with different levels of equipment:

Rotator

Process or spray dispensing

De-scaler dispensing

Rinse-aid dispensing

Inserts

Central steam supply

Models are also available for different voltages.

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Safety regulations

The design of this machine incorporates a number of built-in safety devices. To avoid personal injury, it is very important not to render these safety devices ineffective by by-passing them.

General safety rules

- The machine shall be connected in accordance with the installation instructions.
- The machine shall not be operated by minors.
- Installation and service operations shall be performed by personnel with the appropriate training for this machine.
- The machine's lid lock shall not be by-passed under any circumstances.
- Leakage in the system, e.g. a worn lid seal, shall be repaired immediately.
- Before performing any repair or service operations, the personnel concerned shall study the relevant handbooks and service manuals.
- The machine must not be washed down with water.
- Care shall be taken when using corrosive detergents.
- Safety precautions in the presence of hot water and steam.

Isolating device

The machine shall always be provided with a separate isolating device in the mains power supply mounted in a readily accessible position on a wall.

Description

The wash disinfector is intended for the cleaning and disinfection of re-usable items such as basins, hand bowls and urinals. Disinfection in this context means the destruction of all vegetative bacteria, fungal spores and viruses, but not bacterial spores.

Warning symbols

This handbook contains various warnings, directions and advice of such importance that we have decided to mark them specially. The following layout and symbols are used:

This symbol marks a warning in the handbook text. Failure to heed this warning can lead to more or less severe personal injury and, in some cases, danger to life.

The symbol also marks warnings intended to prevent damage to the appliance.

Unpacking

The wash disinfector is supplied bolted securely to a freight pallet. Remove the packaging.

The following items shall accompany the delivery of the wash disinfector:

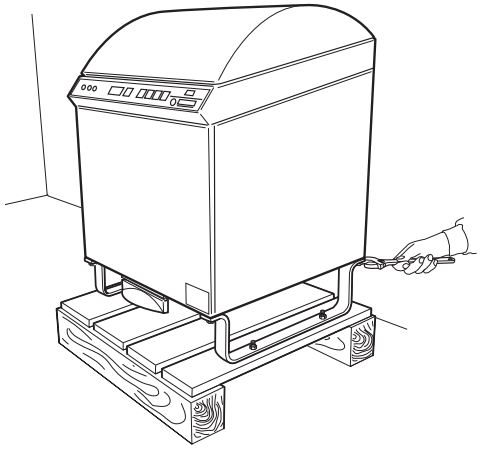
1 wall bracket, plus 2 or 4 legs

1 folder containing documentation

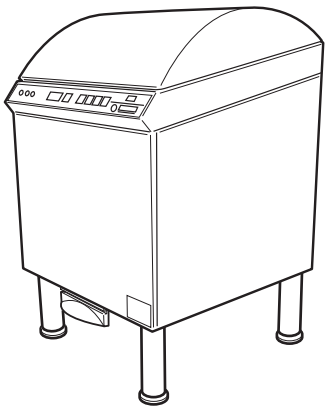
N.B.

Before installation, check that the wash disinfector has not suffered any transport damage.

Care shall be taken when cutting the strap over the lid. The lid opens of its own accord.

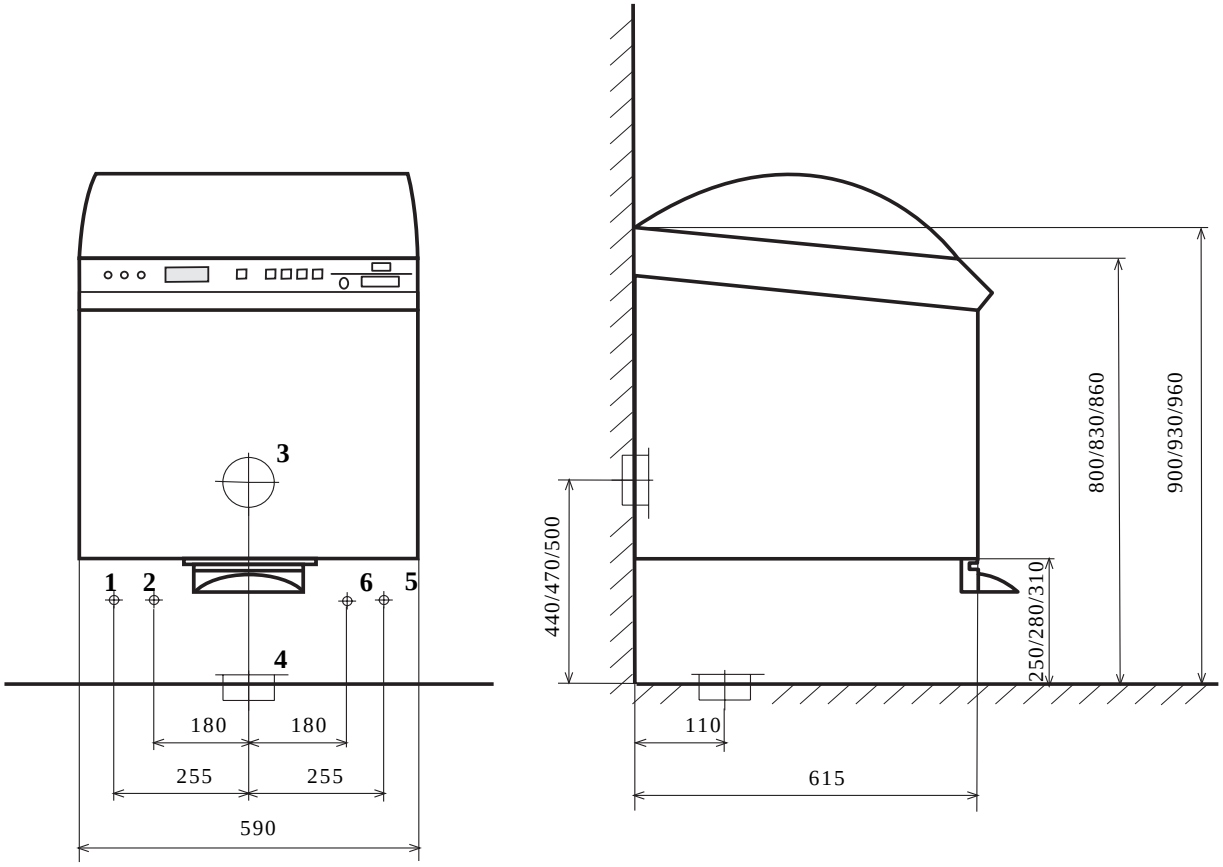


V670



V698

Installing the wash disinfector



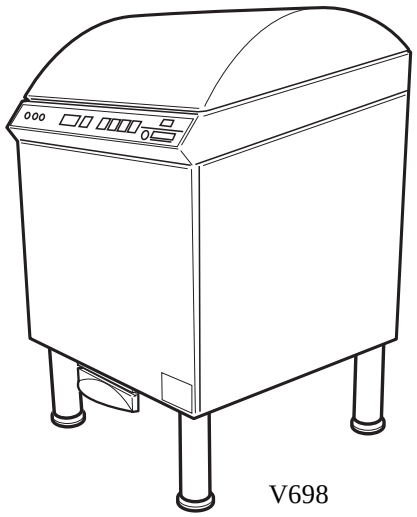
1. Hot water connection 1/2"
2. Cold water connection 1/2"
3. Drain connection, P, wall ø110 mm
4. Drain connection, S, floor ø110 mm
5. Electrical connection, cable 4 m
6. External steam supply 1/2"

V660

Free-standing

Carry out the installation in the following sequence:

1 Remove the transport protection means used to anchor the wash disinfector in the pallet. Fit the legs.
2. Connect the water connections.
3. Connect the drain connection.
4. Carry out the electrical installation.
5. Install the tipping protection.

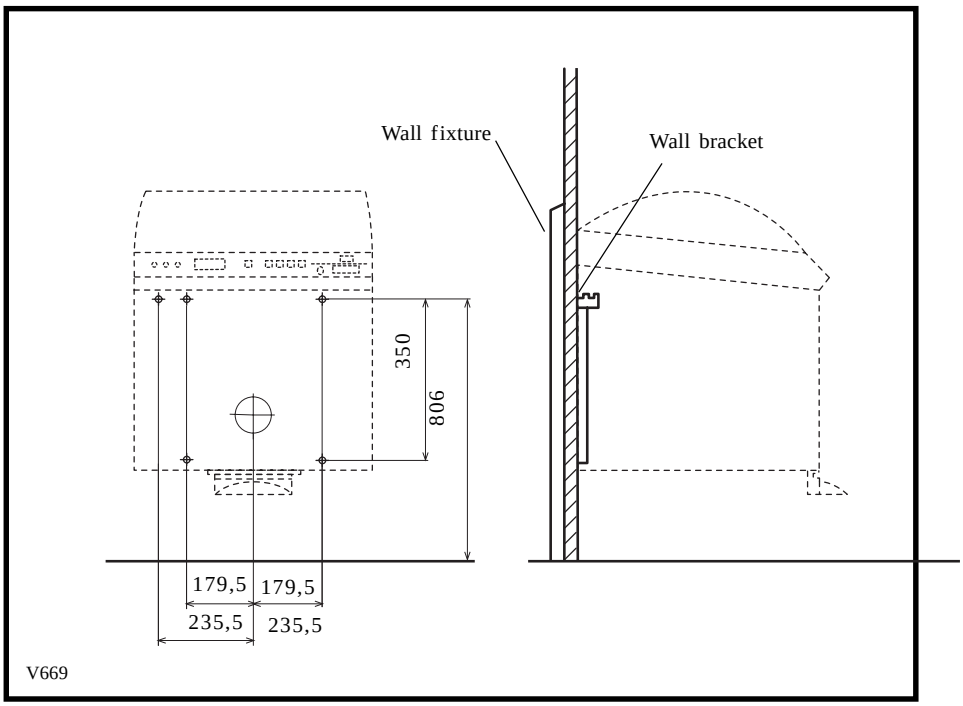


V698

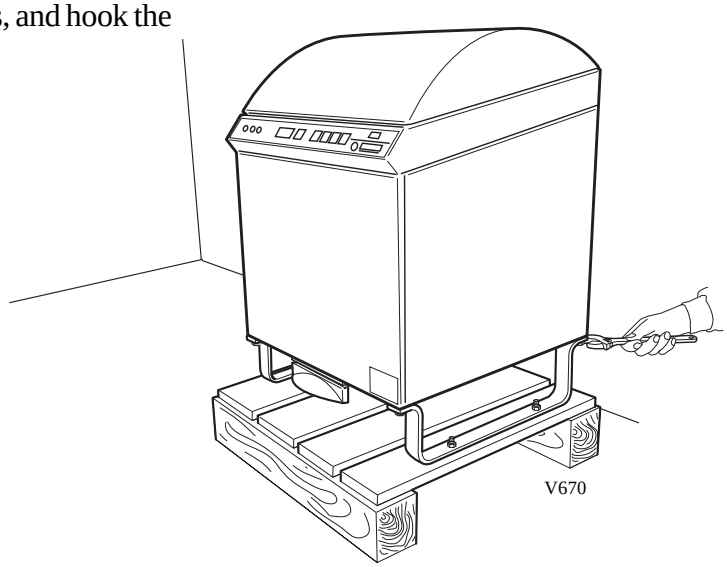
Wall-mounted

Carry out the installation in the following sequence:

1. Drill the hole pattern for the wall bracket, see the Figure below:



2. Fit the wall bracket, using the wall fixture if the wall is too weak.
3. Remove the transport protection means, and hook the machine on the wall bracket.
4. Connect the water connections.
5. Connect the drain connection.
6. Carry out the electrical installation.

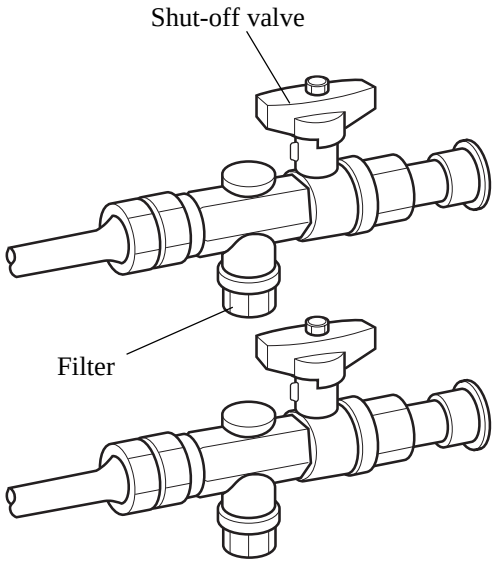


Connection of water

1. Flush through the water pipes that are to be connected to the machine, to prevent blockage of the filter and valves.
2. Connect the wash disinfector to the cold and hot water.

   The water connections must satisfy the following requirements:

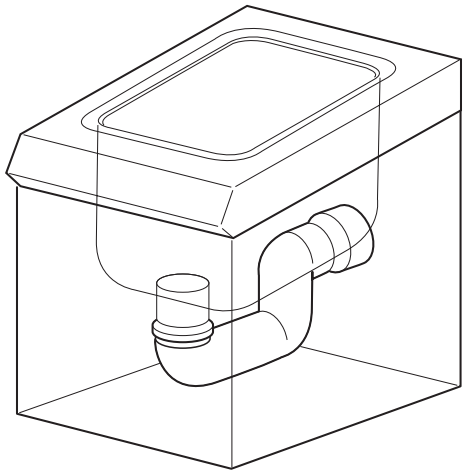
   - The pipe dimensions shall permit a minimum water flow of 20 l/min at 1 bar.
   - The hot water temperature must be at least +45°C.
3. Seal the connections with Teflon tape.



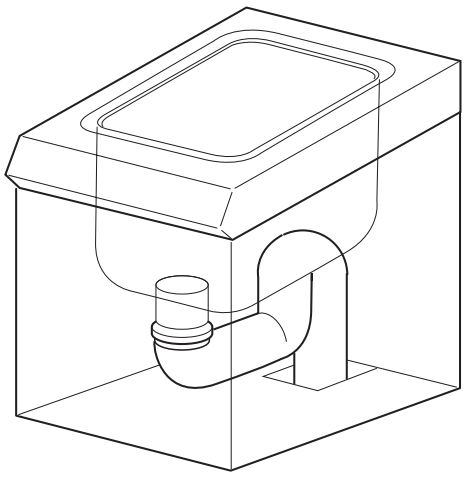
V553

Connection to the drain

Connect the disinfector to the drain. The drain can be connected either rearwards or downwards. The pipe diameter is 110 mm.



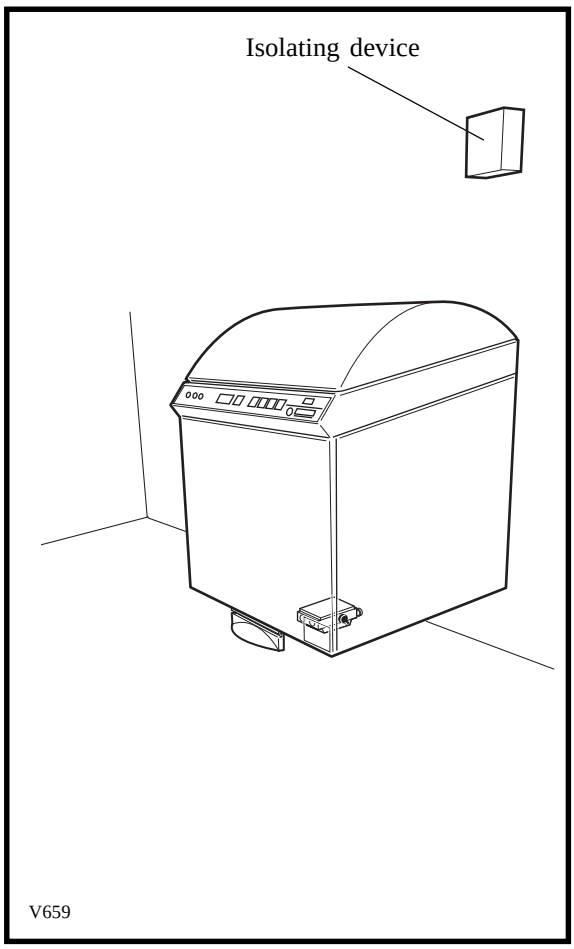
V661 **Drain connection P in wall**



V662 **Drain connection S in floor**

Electrical connection

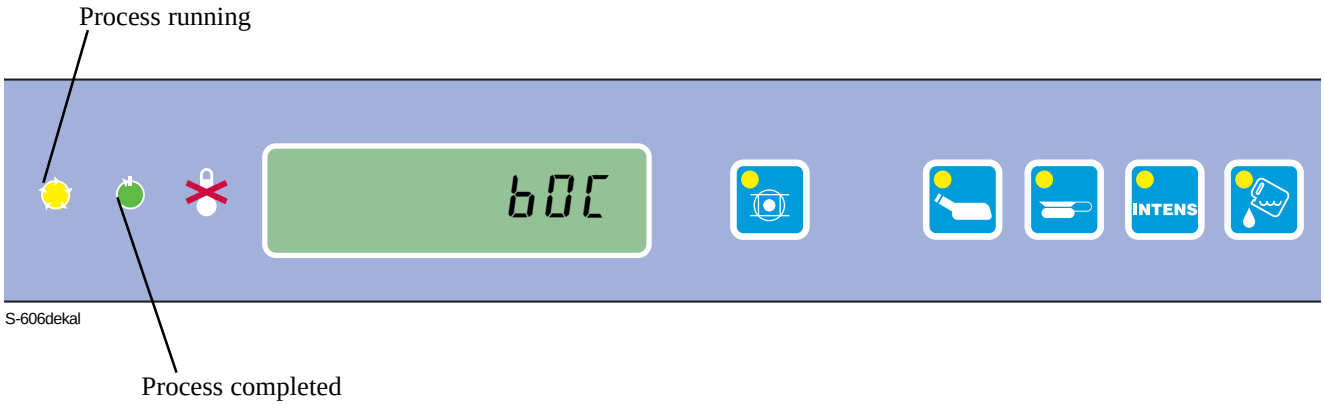
1. Connect the cables to an isolating device, with a 3 mm breaking distance, positioned on the wall.
2. Connect to a protective earth and to the voltage supply indicated on the rating plate. Check that the connection is properly fused. The correct fuse value is stated on the rating plate.



Functional check

- Check that the wash disinfector is connected to the right voltage, as indicated ion the rating plate.
- Open the water valves and switch on the operating switch. The message "Ready for use. Select program" shall appear in the display window.
- If the machine is provided with metering of the cleaning agent: Press and check that the lamp in the button lights.
- Check that the incoming hot water is at the right temperature. The temperature shall be in the range 45 - 60°C.
- Start the Intensive program with the machine empty, and check that:

- the yellow lamp at lights,
- the temperature increases continuously until the cooling phase starts,
- the pause for heating does not exceed ca. 10 minutes,
- the temperature reaches 90 °C,
- the green lamp at lights, and the display window shows Program ready.



- If the machine has a system for the cleaning agent and/or de-scaling agent:

  Measure out the agent in a measuring glass. Ensure that the suction hose is filled with the agent. Start a normal programme, and check that the disinfector consumes the right quantity. For cleaning agent, the quantity/ programme is usually ca. 20 ml and for de-scaling agent is ca. 1.5 - 4.0 ml (follow the supplier's recommendations).
- If the machine is equipped with a peripheral washing program:

  Press button and check that the peripheral washing programme is running. N.B. Keep the button depressed during the entire process (ca. 10 seconds).
- Check for the absence of water leaks. Tighten the connections and pipe couplings, if necessary.

Technical data

Weight	90 - 105	kg
Width	590	mm
Depth	640	mm
Height	995	mm

Environmental requirements:

Maximum air humidity	80% at 31 °C	
Room temperature	5-40	°C

Water consumption (without cooling*)

Economy programme	9	l/process
Normal programme	21	l/process
Intensive programme	24	l/process

* cooling ca 3 l.

Cold water

Connection	15 (1/2")	mm
Pressure	70-800	kPa
Flow	20	l/min

Hot water

Temperature	45-60	°C
Connection	15 (1/2")	mm
Pressure	70-800	kPa
Flow	20	l/min

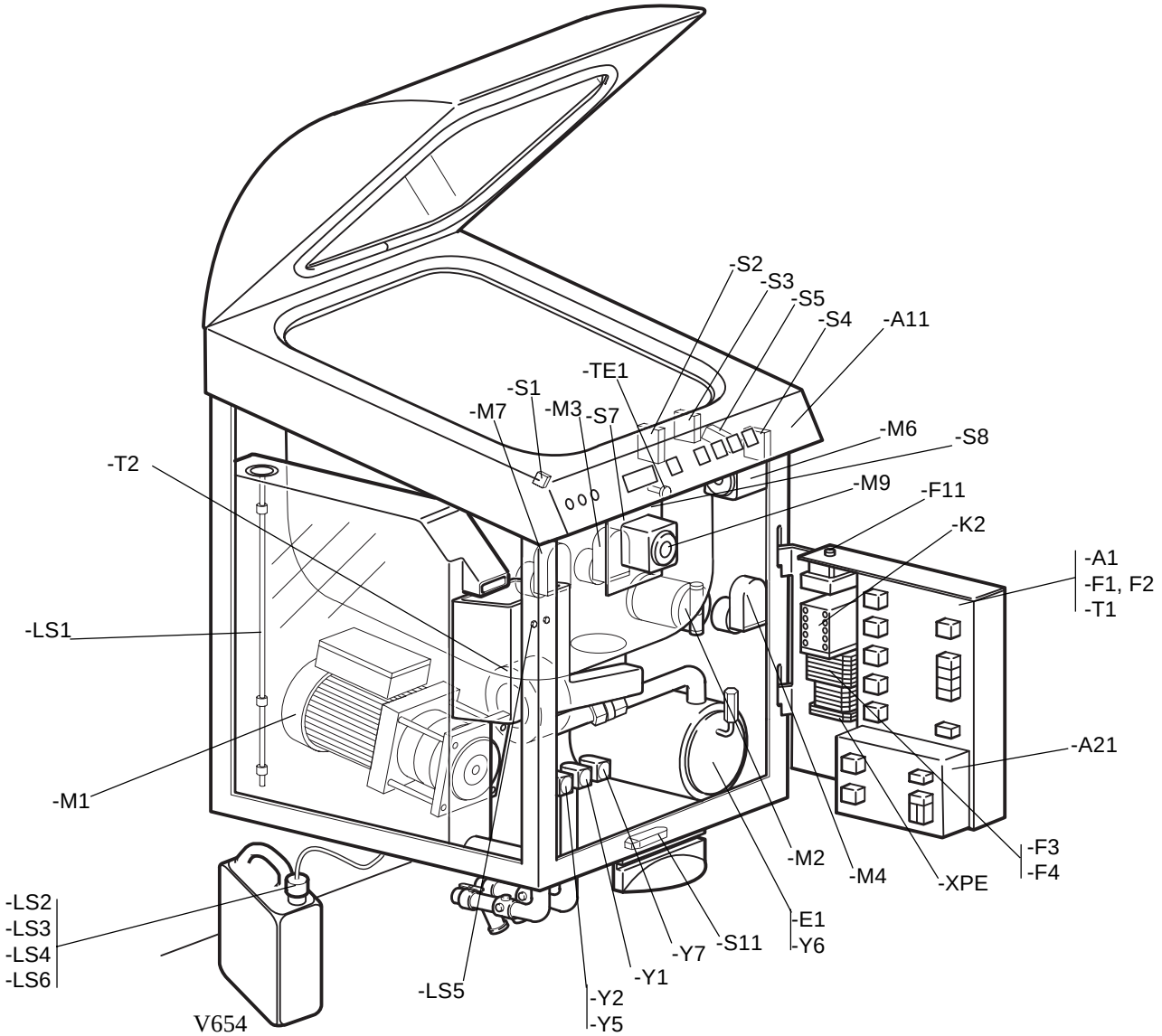
Steam

connection	15 (1/2")	mm
Pressure	30-300	kPa
consumption	0,3	kg/process

Drain	ø 110	mm
Max. external temperature	40	°C
Noise level	60	dB(A)

Variant	Electrical connection	Fuse	Power req.
L1	230 V, 1N+PE 50 Hz (TN)	1x20A	4.35 kW
L2	230 V, 3+PE 50 Hz (TN)	3x16A	5.36 kW
L3	230/400 V, 3N+PE 50 Hz (TN)	3x10A	5.36 kW
V2	230 V, 1N+PE 50 Hz (TN)	1x10A	1.01 kW
L5	240 V, 2+PE 60 Hz (TN)	2x20A	4.35 kW
V3	240 V, 2+PE 60 Hz (TN)	2x10A	1.36 kW
L9	208 V, 2+PE 60 Hz (TN)	2x25A	4.35 kW
V4	208 V, 2+PE 60 Hz (TN)	2x10A	1.36kW
L14	200 V, 2+PE 50 Hz (TN)	2x25A	4.35 kW
V5	200 V, 2+PE 50 Hz (TN)	2x10A	1.01 kW
L18	200 V, 2+PE 60 Hz (TN)	2x25A	4.35 kW
V6	200 V, 2+PE 60 Hz (TN)	2x10A	1.36 kW
L22	230V !N+PE 60 Hz (TN)	1x20A	4.35 kW
L24	230/400V3N+PE 60 Hz (TN)	3x10A	5.71 kW
V7	230V 1N+PE 60 Hz (TN)	1x10A	1.36 kW

Component list



-A1 Control system, processor card
-A21 Control system, expansion card (option)
-A11 Control panel
-E1 Electric element in steam generator
-F1 Fuse for auxiliary transformer
-F2 24V fuse on processor card
-F3 Fuse for control voltage, phase 1
-F4 Fuse for control voltage, phase 2 (some connection alternatives)
-F11 Overheating protection, steam generator
-K2 Contactor, element in steam generator
-LS1 Level sensor, tank
-LS2 Level sensor, de-scaling
-LS3 Level sensor, spray agent (option)
-LS4 level sensor, process (option)
-LS5 Leakage sensor
-LS6 Level sensor, rinse aid (option)
-M1 Motor, main pump
-M2 Motor pump, spray agent (option)
-M3 Motor pump, cleaning agent (option)
-M4 Motor pump, de-scaling
-M6 Motor, door actuation/door lock
-M7 Motor pump, rinse-aid (option)
-M9 Motor, rotator (option)
-S1 Limit switch, disengages anti-trapping protection
-S2 Limit switch, anti-trapping protection
-S3 Limit switch, door closed
-S4 Limit switch, door open
-S5 Safety switch, door closed
-S7 Limit switch, rotator down (option)
-S8 Limit switch, rotator up (option)
-S11 Push-button for pedal
-T1 Control current transformer
-TE1 Temperature sensor PT 1000
-Y1 Solenoid valve, cold water (KV)
-Y2 Solenoid valve, hot water (VV)
-Y5 Solenoid valve, external cooling (option)
-Y6 Valve, external steam (option)
-Y7 Solenoid valve, condense cooling
-XPE Protective earthing rail
-T2 Transformer, 200-240/230V

N.B. Some components are extra equipment.

Electrical wiring diagram

ELECTRICAL DOCUMENTATION SPOLOMAT 606

DRAWING NO	DOCUMENT CLASS	DOCUMENT CONTENTS	EQUIPMENT	DATE	REV NO	REV DATE
D-4998822	DOCUMENT LIST	DOCUMENT CONTENTS	S-606	98-06-02		
D-4998769	CIRCUIT DIAGRAM	CONNECTION, ALT. L1, L2,L22	S-606,S-616	98-06-02		
D-4998770	CIRCUIT DIAGRAM	CONNECTION,ALT.L3,V2,L24,V7	S-606,S-616	98-06-02		
D-4998823	CIRCUIT DIAGRAM	CONNECTION, ALT. L5, V3	S-606,S-616	98-06-02		
D-4998824	CIRCUIT DIAGRAM	CONNECTION, ALT. L9, V4	S-606,S-616	98-06-02		
D-4998825	CIRCUIT DIAGRAM	CONNECTION, ALT. L14, V5	S-606,S-616	98-06-02		
D-4998826	CIRCUIT DIAGRAM	CONNECTION, ALT. L18, V6	S-606,S-616	98-06-02		
D-4998771	CIRCUIT DIAGRAM	CONTROL SYSTEM	S-606	98-06-02		
D-4998772	CIRCUIT DIAGRAM	CONTROL SYSTEM	S-606	98-06-02		
D-4998773	CIRCUIT DIAGRAM	CONTROL SYSTEM	S-606	98-06-02		
D-4998774	CIRCUIT DIAGRAM	CONTROL SYSTEM,EXP CARD	S-606	98-06-02		

Nr	An	Ändring och /eller medd.-nr	Datum	Inf.	Godk.

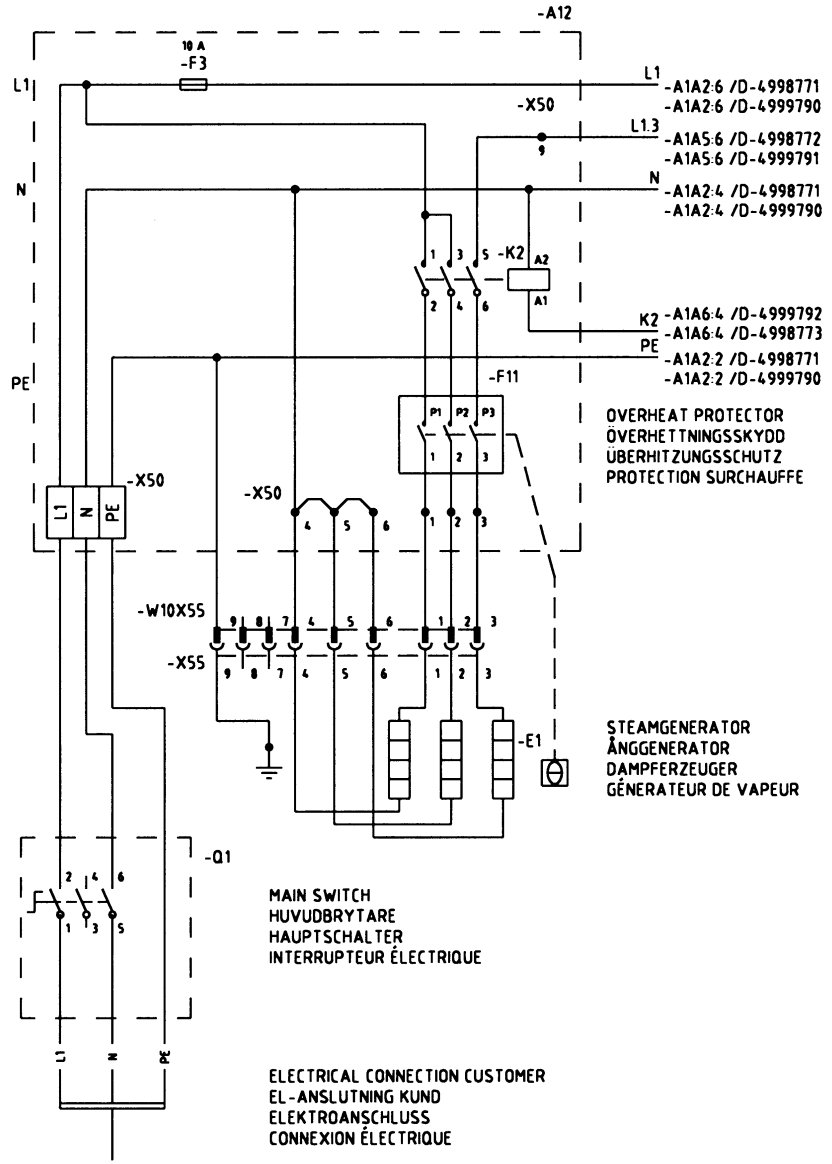
Konstr.	Godk. av	Toleranser där ej annat anges	Ytjämnhet där ej annat anges	Skala	Ersätter	Ersatt av
SJN	HÖ					

GETINGE DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ

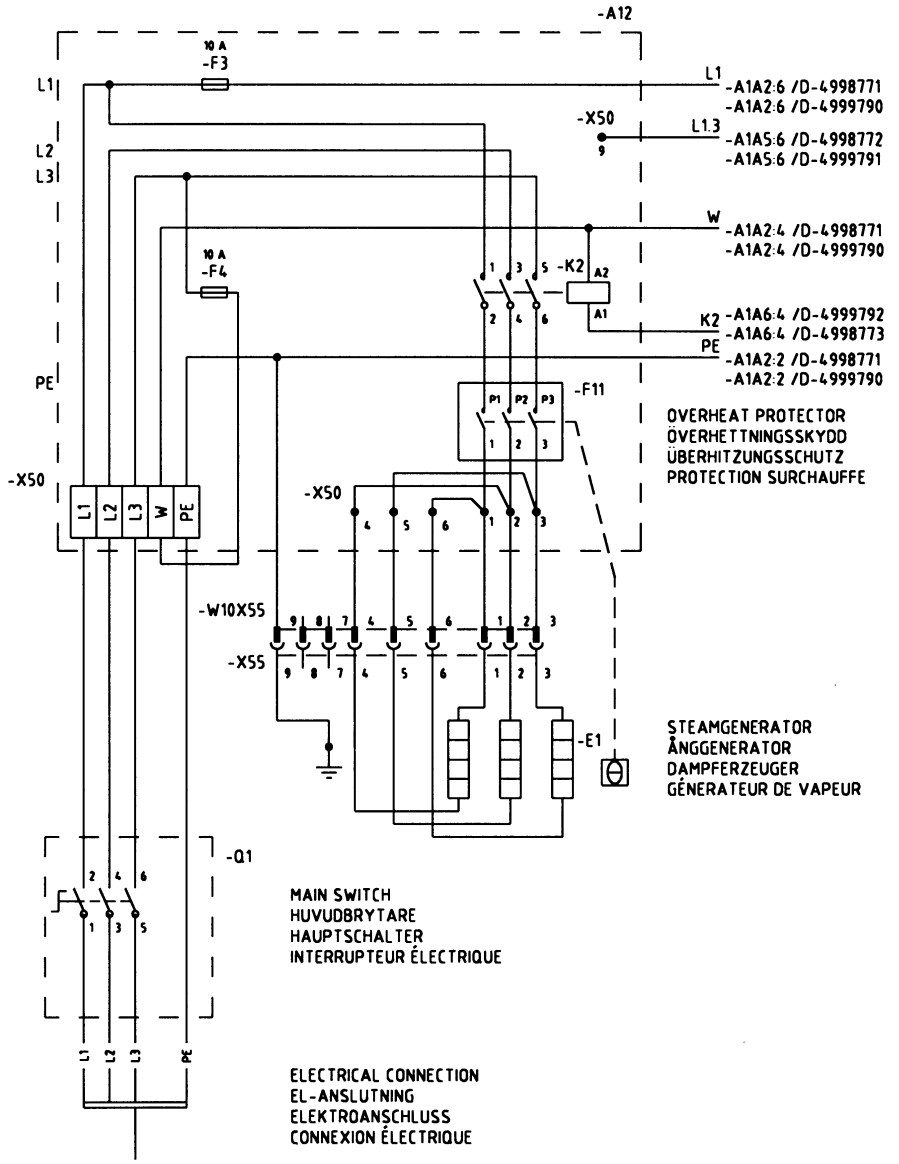
DOCUMENT LIST
ELECTRICAL DOCUMENTATION
S-606

Filnamn	Dat.
4998822	98-06-02
Ritn.-nr	Rev.
D-4998822	

ALTERNATIVE L1 - 230 V, 1N+PE, 50 Hz,4350W, 1x20A
ALTERNATIVE L22 - 230 V, 1N+PE, 60 Hz,4350W, 1x20A



ALTERNATIVE L2 - 230 V, 3+PE, 50 Hz,5360W, 3x16A



Konstr.	Godk. av	Toleranser där ej annat anges	Ytjämnhet där ej annat anges	Skala	Ersätter	Ersatt av
SJN	HÖ					

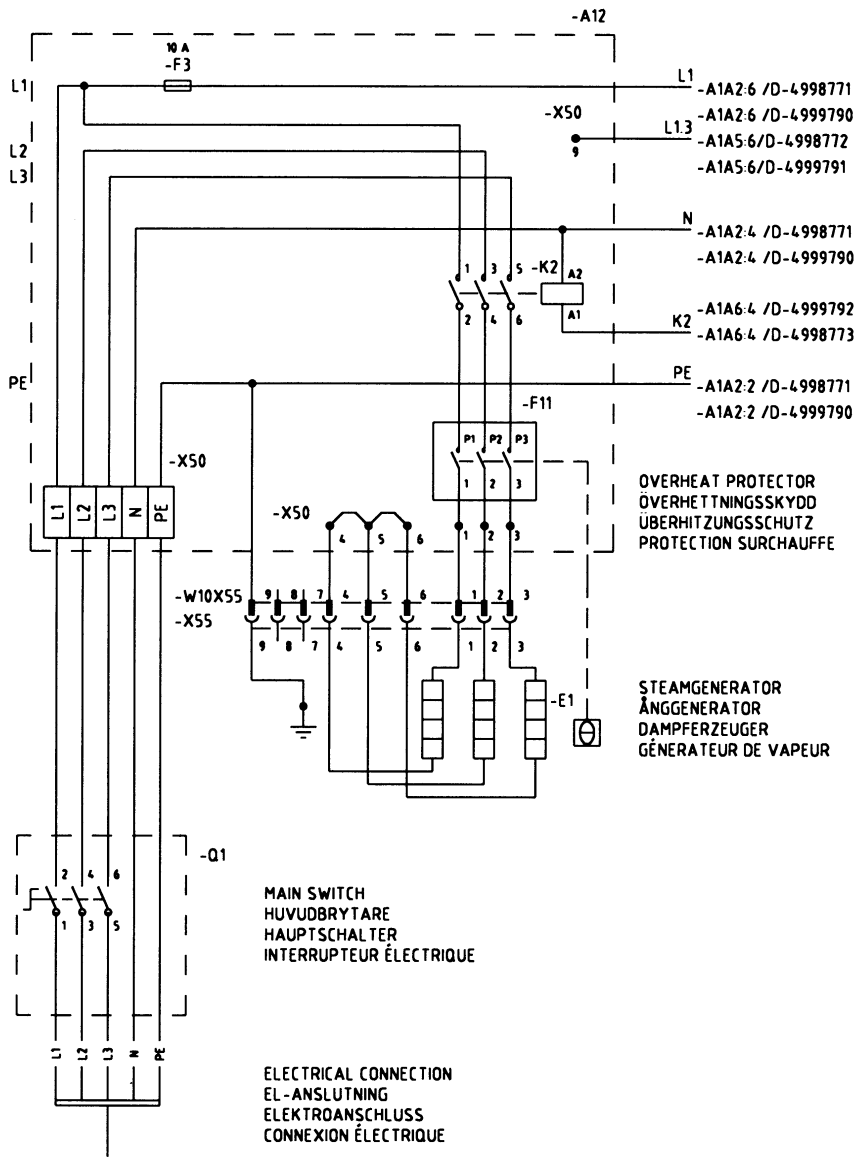
GETINGE DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ

CIRCUIT DIAGRAM
CONNECTION, ALT. L1,L2,L22
S-606,S-616

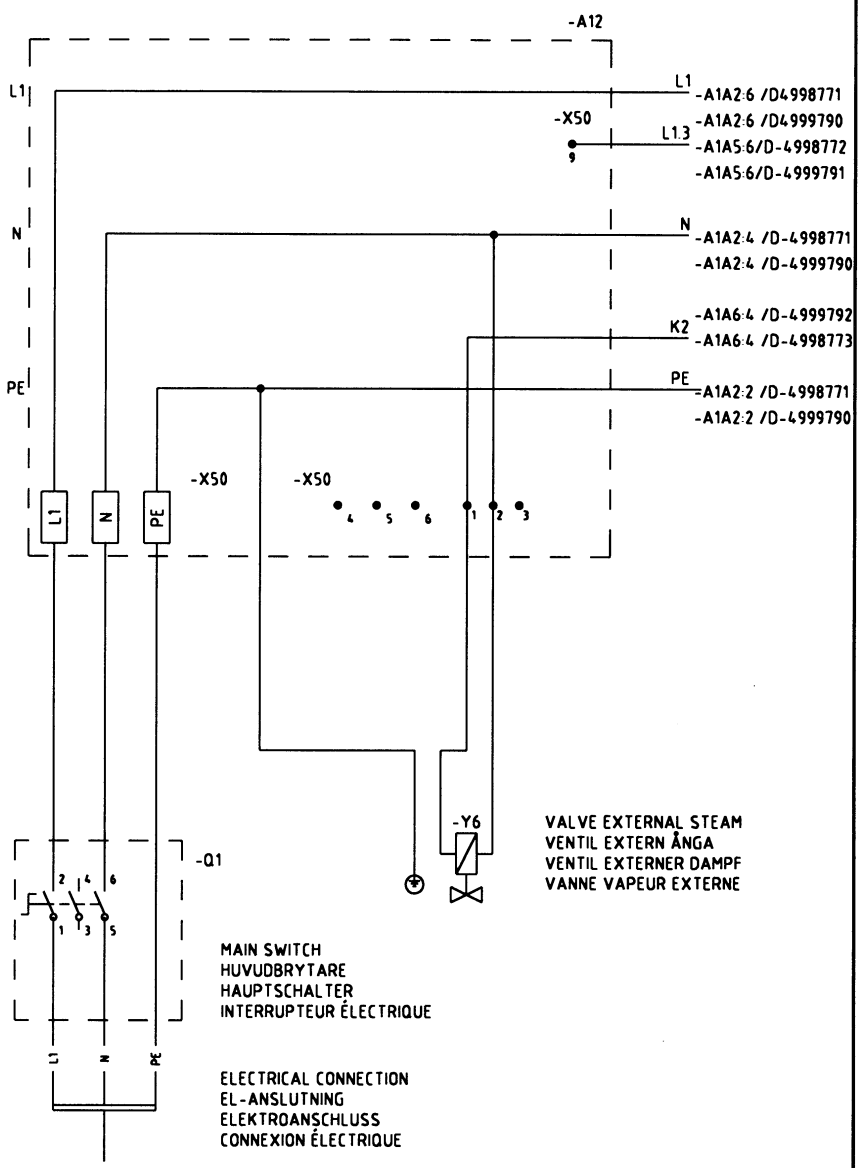
Filnamn	Dat.
4998769	98-06-02
Ritn.-nr	Rev.
D-4998769	

Nr	An	Ändring och /eller medd.-nr	Datum	Inf.	Godk.

ALTERNATIVE L3 - 230/400 V, 3N+PE, 50 Hz 5360W,3x10A
ALTERNATIVE L24 - 230/400 V, 3N+PE, 60 Hz 5710W,3x10A



ALTERNATIVE V2 - 230 V, 1N+PE, 50 Hz,1010W,1x10A
ALTERNATIVE V7 - 230 V, 1N+PE, 60 Hz,1360W,1x10A



Nr	Ant	Ändring och /eller medd.-nr	Datum	Inf.	Godk.

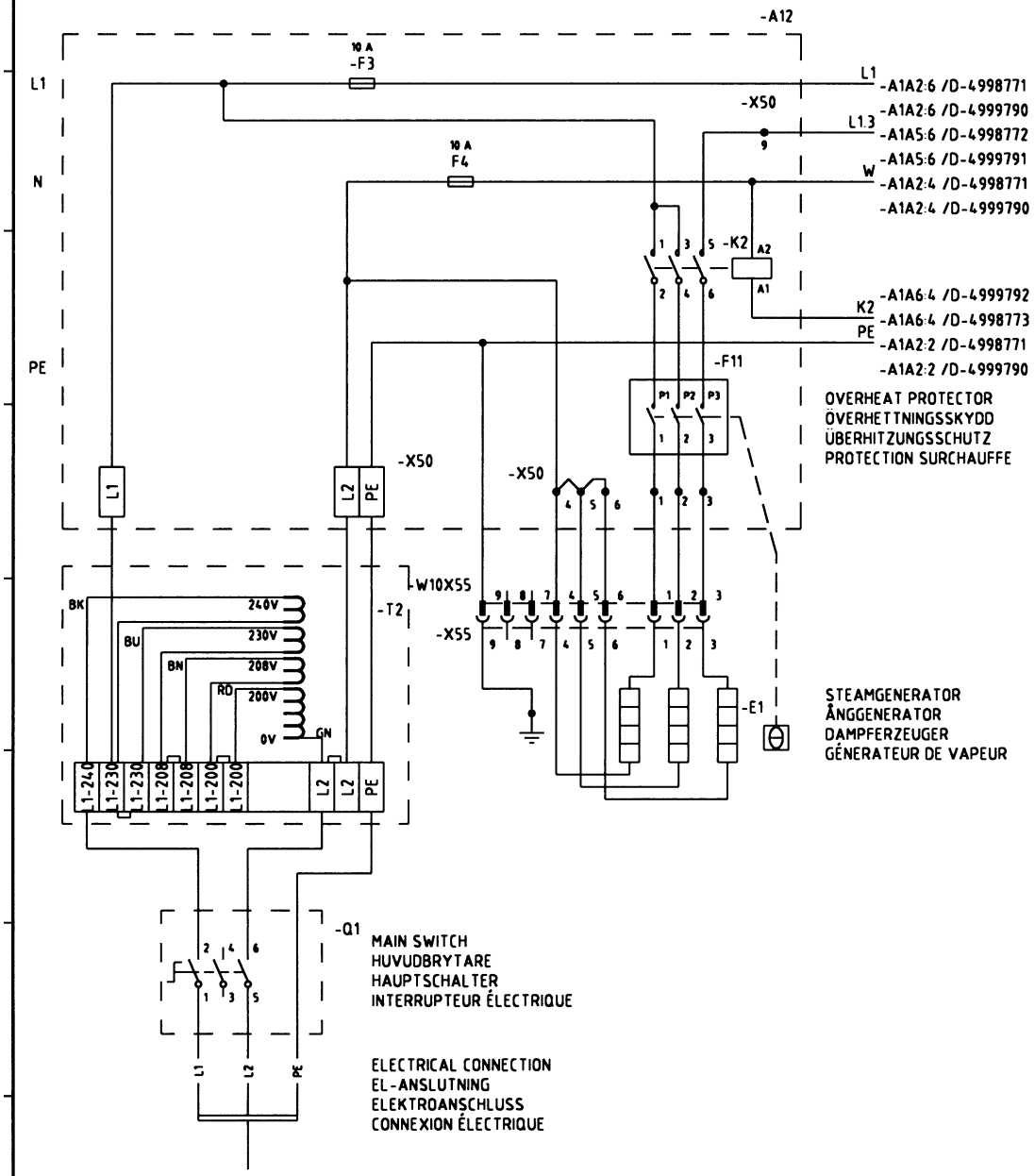
Konstr.	Godk. av	Toleranser där ej annat anges	Ytjämnhet där ej annat anges	Skala	Ersätter	Ersatt av
SJN	HÖ					

GETINGE DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ

CIRCUIT DIAGRAM
CONNECTION, ALT L3, V2,L24,V7
S-606,S-616

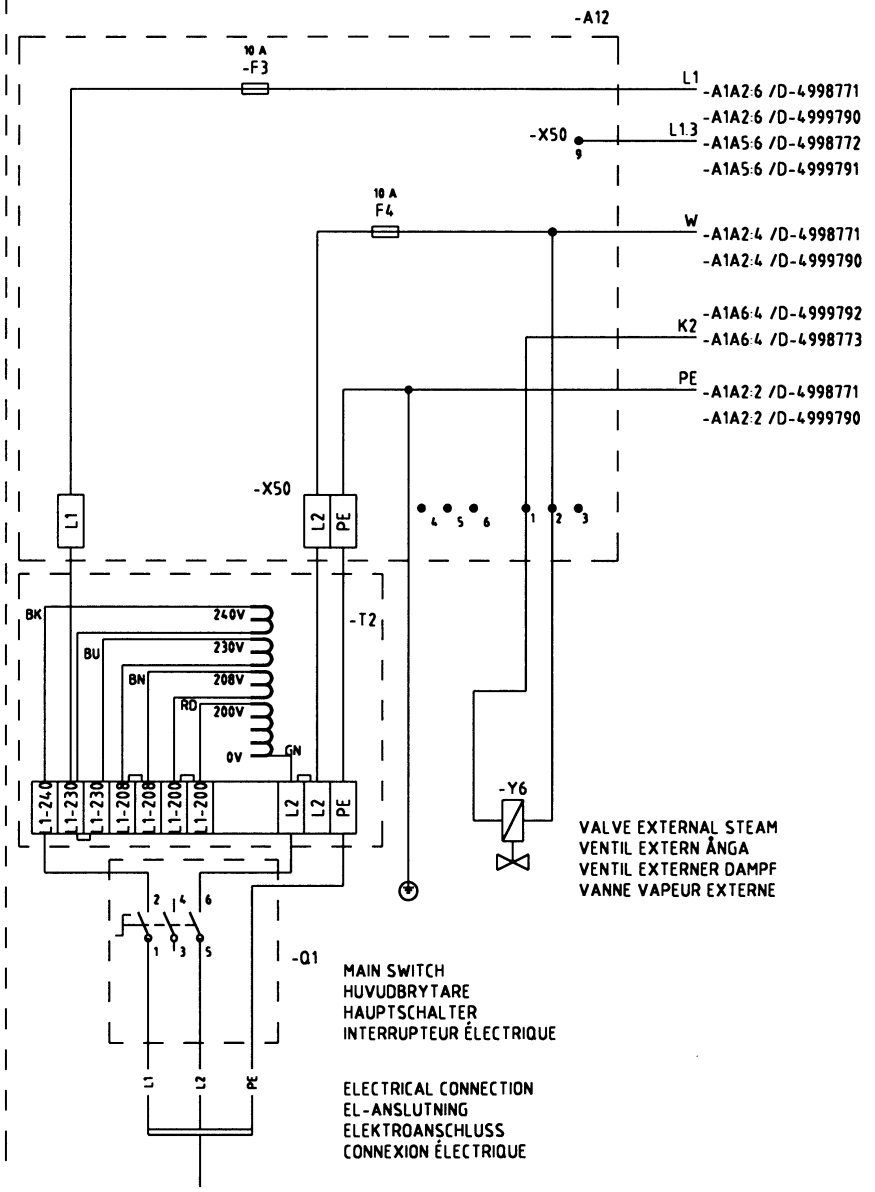
Filnamn	Dat.
4998770	98-06-02
Ritn.-nr	Rev.
D-4998770	

ALTERNATIVE L5 - 240 V, 2+PE, 60 Hz
4350 W, 2x20 A



-A1A2:6 /D-4998771
-A1A2:6 /D-4999790
-A1A5:6 /D-4998772
-A1A5:6 /D-4999791
-A1A2:4 /D-4998771
-A1A2:4 /D-4999790
-A1A6:4 /D-4999792
-A1A6:4 /D-4998773
-A1A2:2 /D-4998771
-A1A2:2 /D-4999790

ALTERNATIVE V3 - 240 V, 2+PE, 60 Hz
1360 W, 2x10 A



-A1A2:6 /D-4998771
-A1A2:6 /D-4999790
-A1A5:6 /D-4998772
-A1A5:6 /D-4999791
-A1A2:4 /D-4998771
-A1A2:4 /D-4999790
-A1A6:4 /D-4999792
-A1A6:4 /D-4998773
-A1A2:2 /D-4998771
-A1A2:2 /D-4999790

Konstr.	Godk. av	Toleranser där ej annat anges	Ytjämnhet där ej annat anges	Skala	Ersätter	Ersatt av
SJN	HÖ					

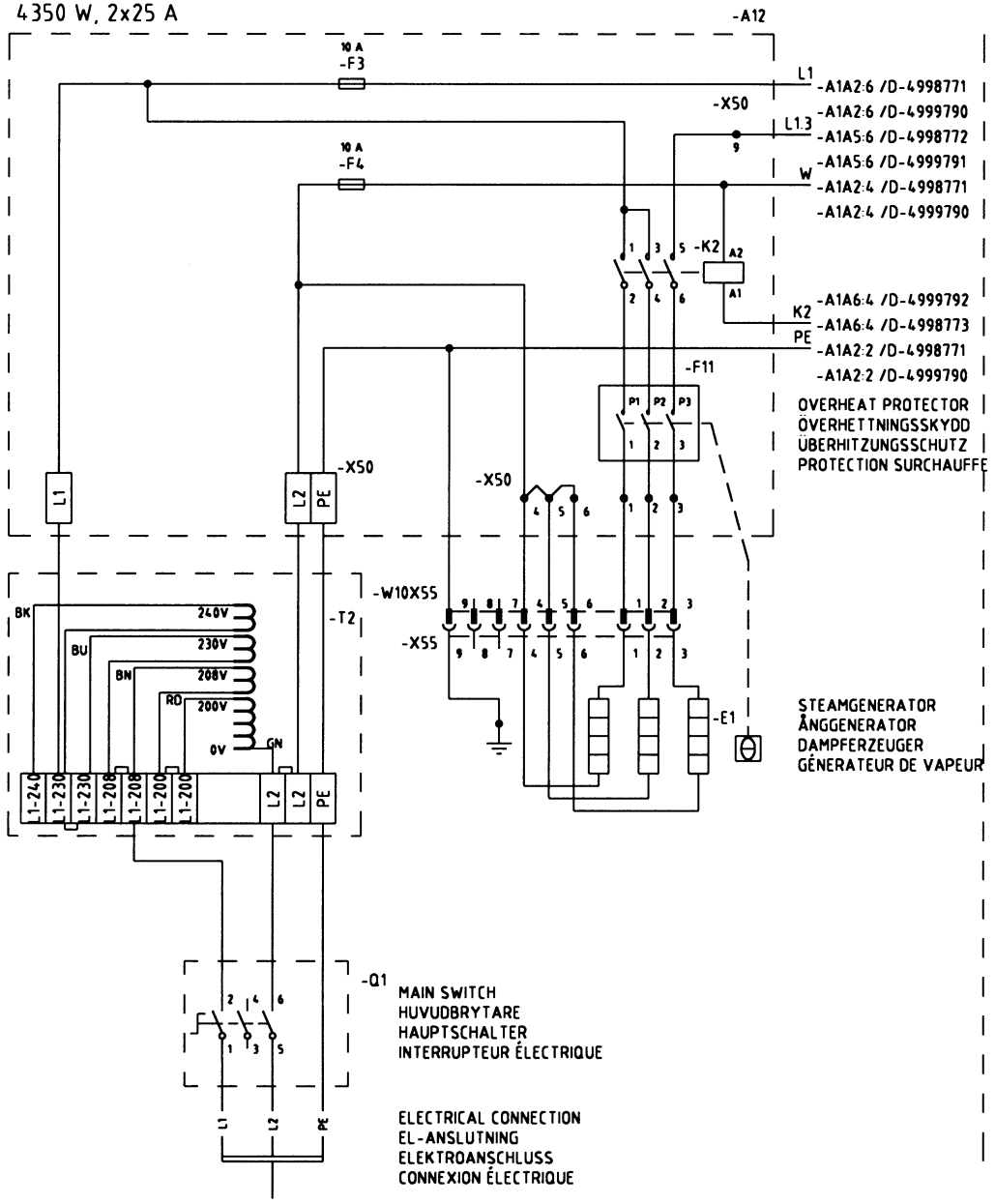
GETINGE DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ

CIRCUIT DIAGRAM
CONNECTION, ALT. L5, V3
S-606,S-616

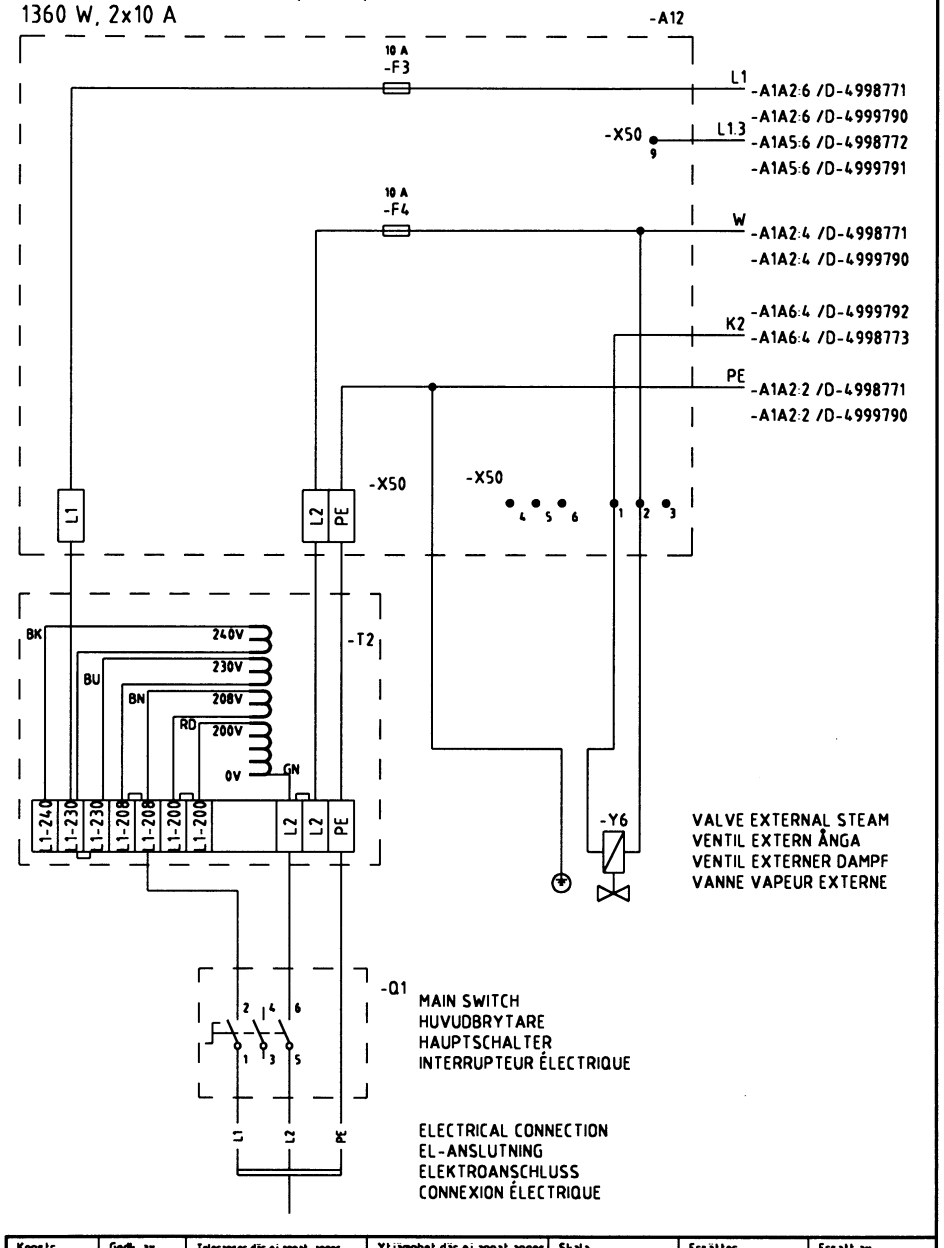
Filnamn	Dat.
4998823	98-06-02
Ritn.-nr	Rev.
D-4998823	

Nr	Ant	Ändring och /eller medd.-nr	Datum	Inf.	Godk.

ALTERNATIVE L9- 208 V, 2+PE, 60 Hz
4350 W, 2x25 A



ALTERNATIVE V4 - 208 V, 2+PE, 60 Hz
1360 W, 2x10 A



Nr	An	Ändring och /eller medd.-nr	Datum	Inf.	Godk.

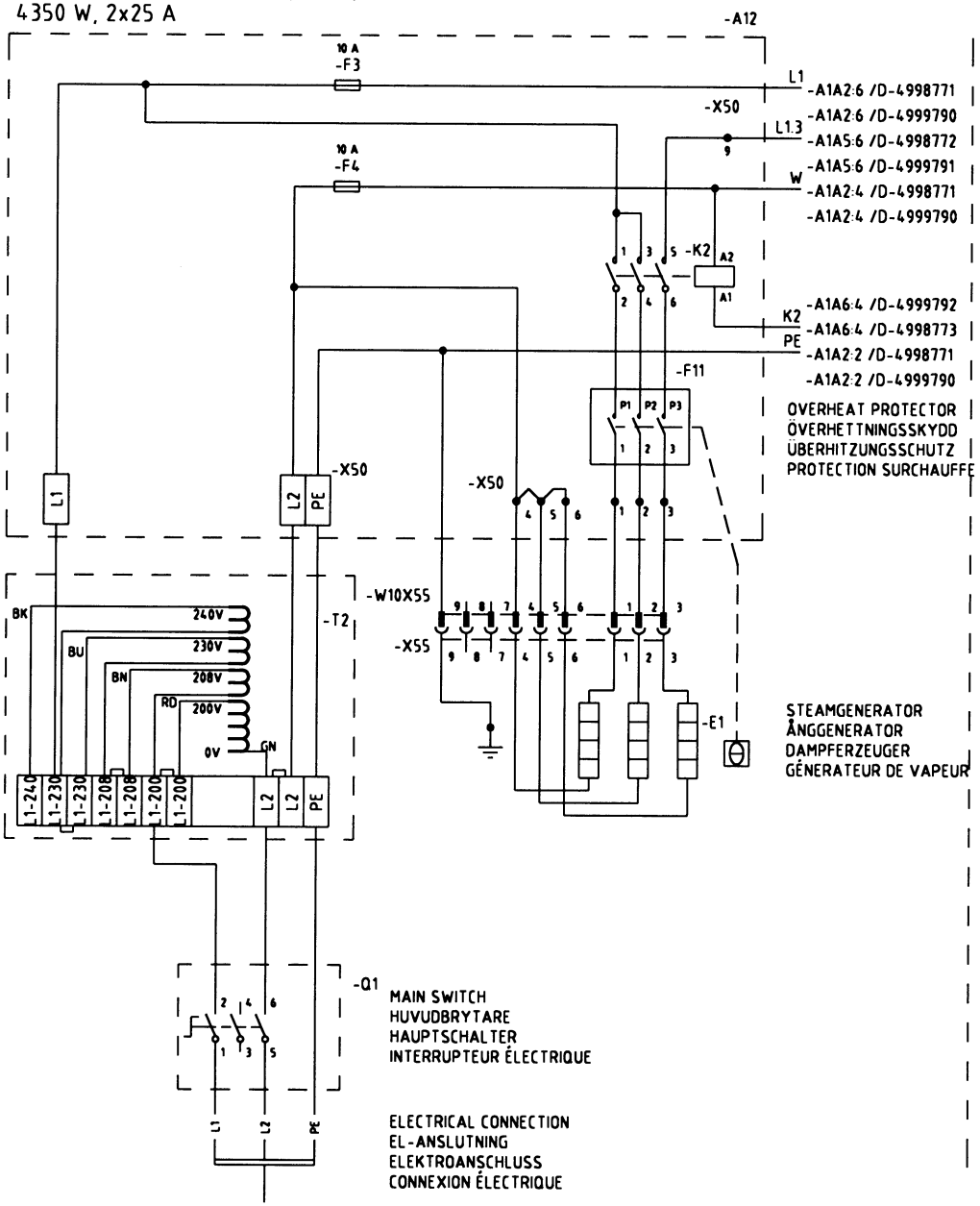
Konstr.	Godk. av	Toleranser där ej annat anges	Ytjämnhet där ej annat anges	Skala	Ersätter	Ersatt av
SJN	HÖ					

GETINGE DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ

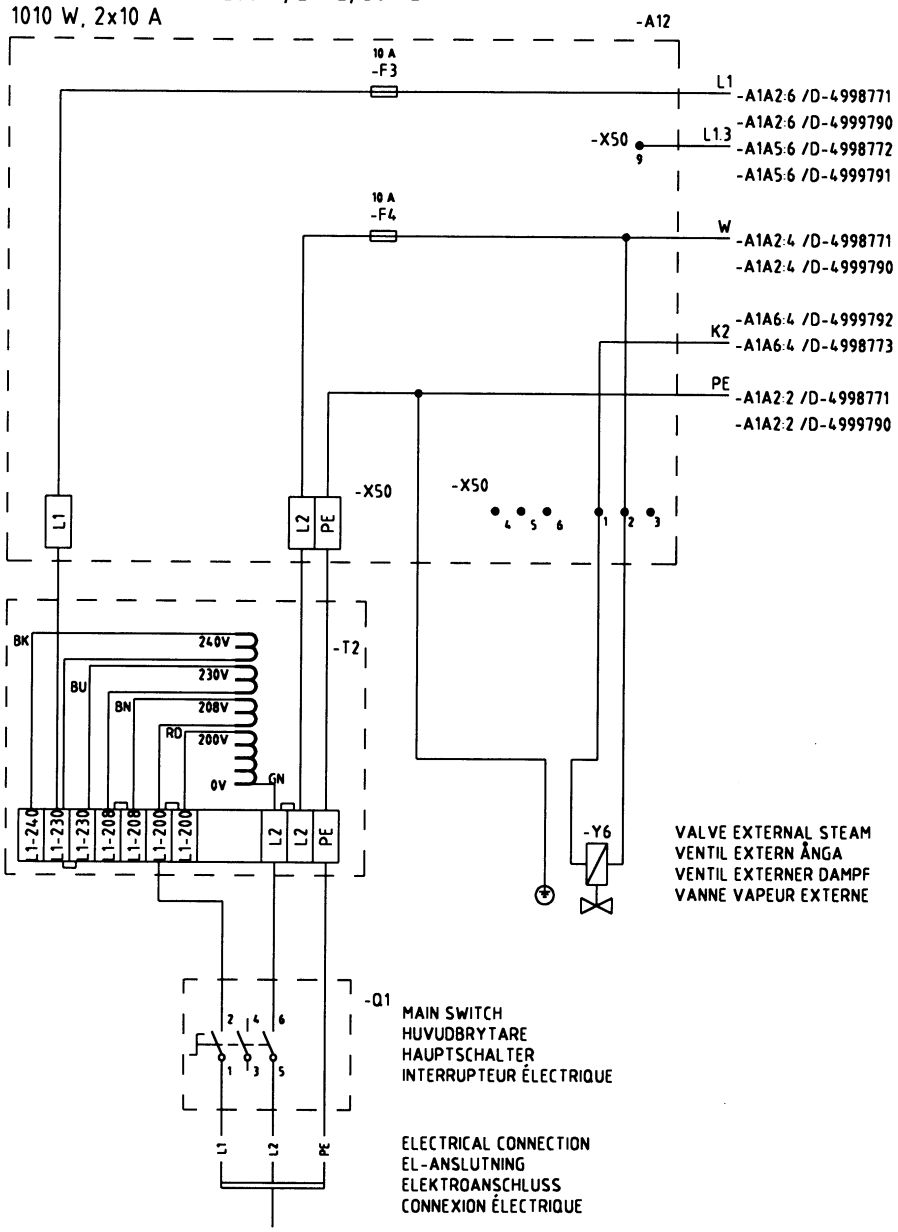
CIRCUIT DIAGRAM
CONNECTION, ALT. L9, V4
S-606, S-616

Filnamn	Del.
4998824	98-06-02
Ritn.-nr	Rev.
D-4998824	

ALTERNATIVE L14 - 200 V, 2+PE, 50 Hz
4350 W, 2x25 A



ALTERNATIVE V5 - 200 V, 2+PE, 50 Hz
1010 W, 2x10 A



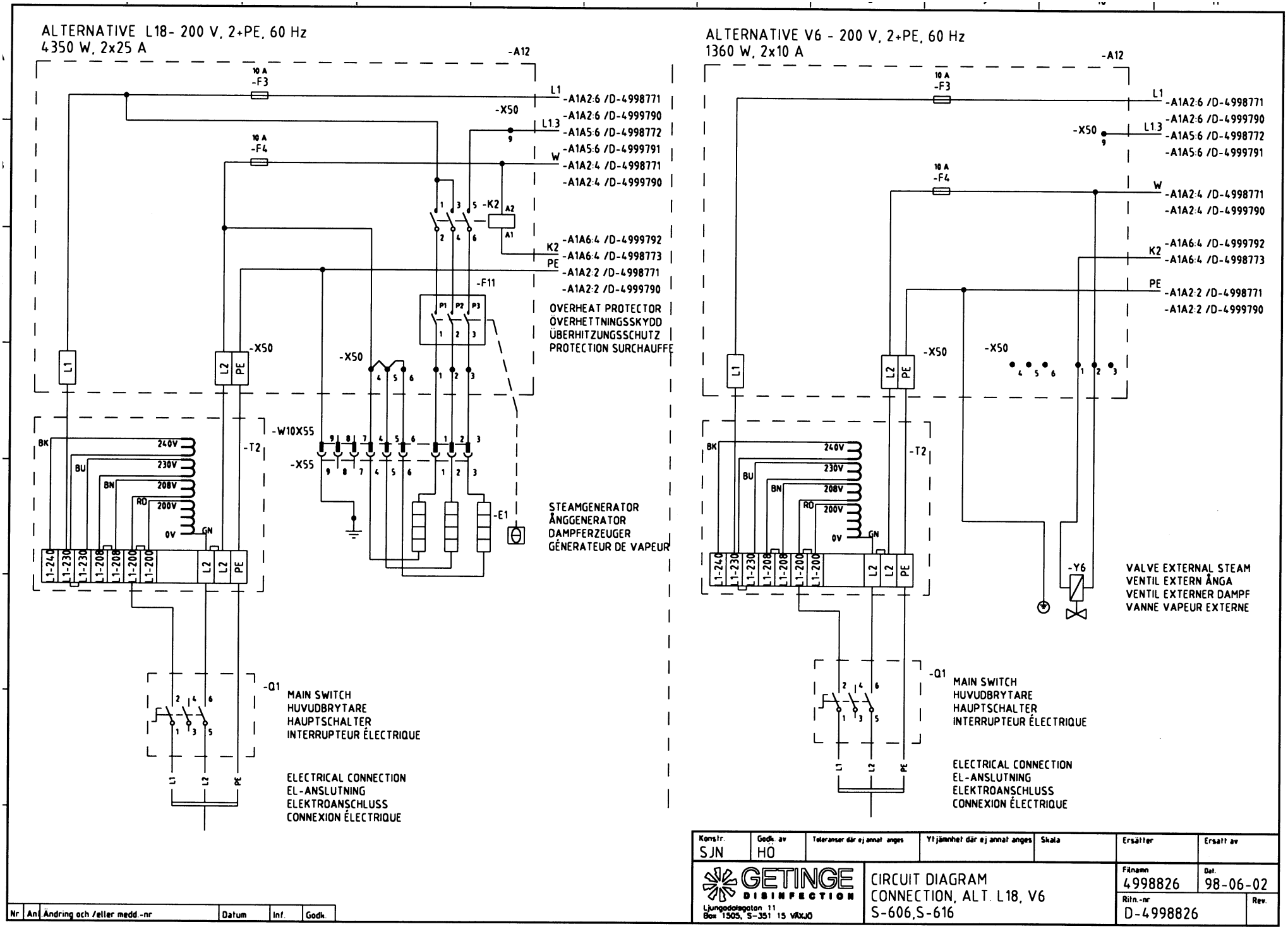
Nr	An	Ändring och /eller medd.-nr	Datum	Inf.	Godk.

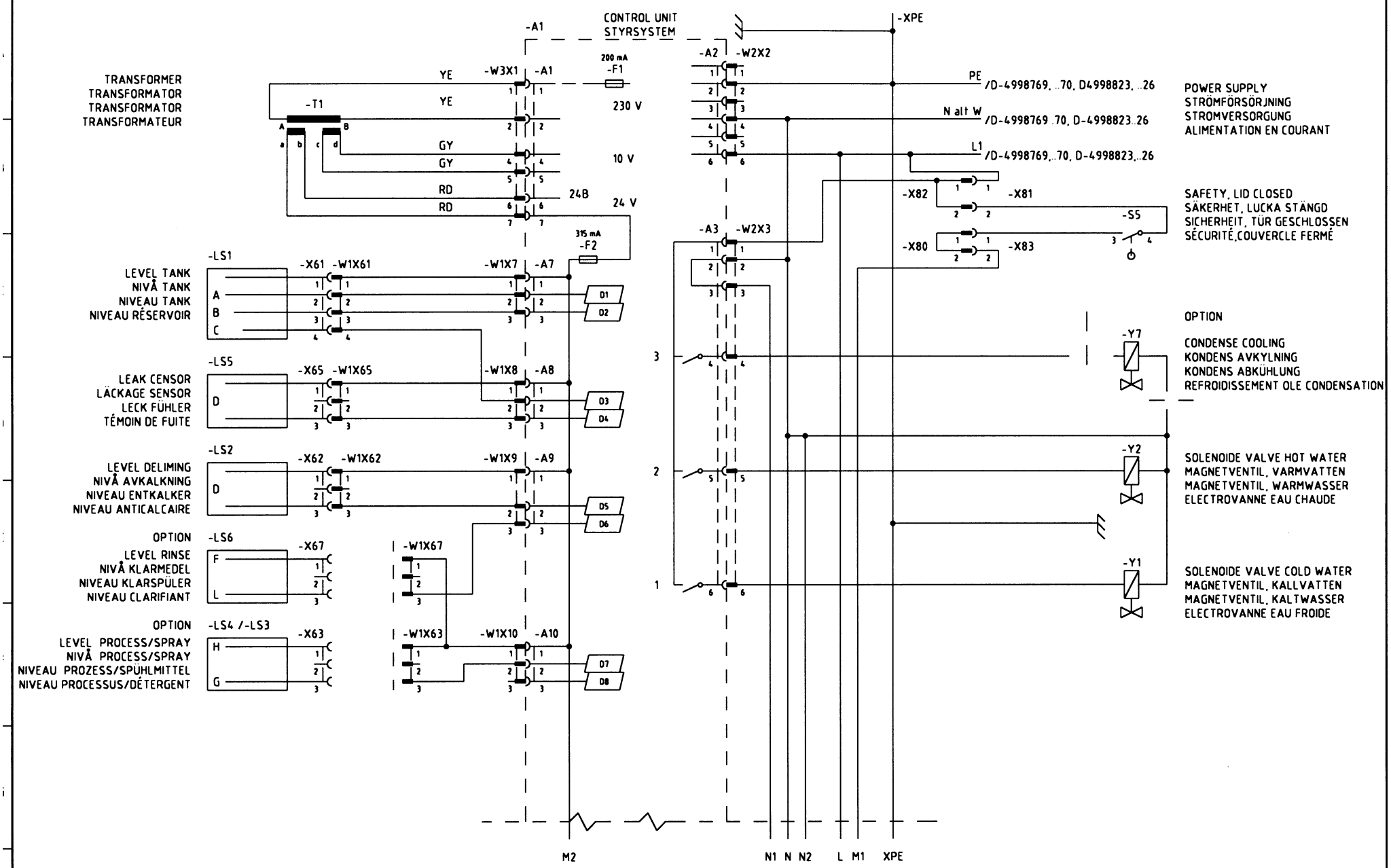
Konstr.	Godk. av	Toleranser där ej annat anges	Ytjämnhet där ej annat anges	Skala	Ersätter	Ersatt av
SJN	HÖ					

GETINGE DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ

CIRCUIT DIAGRAM
CONNECTION, ALT. L14, V5
S-606,S-616

Filnamn	Dat.
4998825	98-06-02
Ritn.-nr	Rev.
D-4998825	


ALTERNATIVE L18- 200 V, 2+PE, 60 Hz
4350 W, 2x25 A
-A12
10 A
-F3
L1
-A1A2:6 /D-4998771
-A1A2:6 /D-4999790
-X50
L1.3
-A1A5:6 /D-4998772
-A1A5:6 /D-4999791
10 A
-F4
W
-A1A2:4 /D-4998771
-A1A2:4 /D-4999790
-K2
A2
A1
-A1A6:4 /D-4999792
K2
-A1A6:4 /D-4998773
PE
-A1A2:2 /D-4998771
-A1A2:2 /D-4999790
-F11
OVERHEAT PROTECTOR
ÖVERHETTNINGSSKYDD
ÜBERHITZUNGSSCHUTZ
PROTECTION SURCHAUFFE
-X50
-W10X55
-X55
-T2
BK
BU
BN
RD
GN
240V
230V
208V
200V
0V
L1-240
L1-230
L1-230
L1-208
L1-208
L1-200
L1-200
L2
L2
PE
-E1
STEAMGENERATOR
ÅNGGENERATOR
DAMPFERZEUGER
GÉNERATEUR DE VAPEUR
-Q1
MAIN SWITCH
HUVUDBRYTARE
HAUPTSCHALTER
INTERRUPTEUR ÉLECTRIQUE
ELECTRICAL CONNECTION
EL-ANSLUTNING
ELEKTROANSCHLUSS
CONNEXION ÉLECTRIQUE
ALTERNATIVE V6 - 200 V, 2+PE, 60 Hz
1360 W, 2x10 A
-A12
10 A
-F3
L1
-A1A2:6 /D-4998771
-A1A2:6 /D-4999790
-X50
L1.3
-A1A5:6 /D-4998772
-A1A5:6 /D-4999791
10 A
-F4
W
-A1A2:4 /D-4998771
-A1A2:4 /D-4999790
-A1A6:4 /D-4999792
K2
-A1A6:4 /D-4998773
PE
-A1A2:2 /D-4998771
-A1A2:2 /D-4999790
-X50
-T2
-Y6
VALVE EXTERNAL STEAM
VENTIL EXTERN ÅNGA
VENTIL EXTERNER DAMPF
VANNE VAPEUR EXTERNE
-Q1
MAIN SWITCH
HUVUDBRYTARE
HAUPTSCHALTER
INTERRUPTEUR ÉLECTRIQUE
ELECTRICAL CONNECTION
EL-ANSLUTNING
ELEKTROANSCHLUSS
CONNEXION ÉLECTRIQUE
Konstr.
SJN
Godk. av
HO
Toleranser där ej annat anges
Ytjämnhet där ej annat anges
Skala
Ersätter
Ersatt av
GETINGE
DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ
CIRCUIT DIAGRAM
CONNECTION, ALT. L18, V6
S-606,S-616
Filnamn
4998826
Dat.
98-06-02
Ritn.-nr
D-4998826
Rev.
Nr
Ant.
Ändring och /eller medd.-nr
Datum
Inf.
Godk.



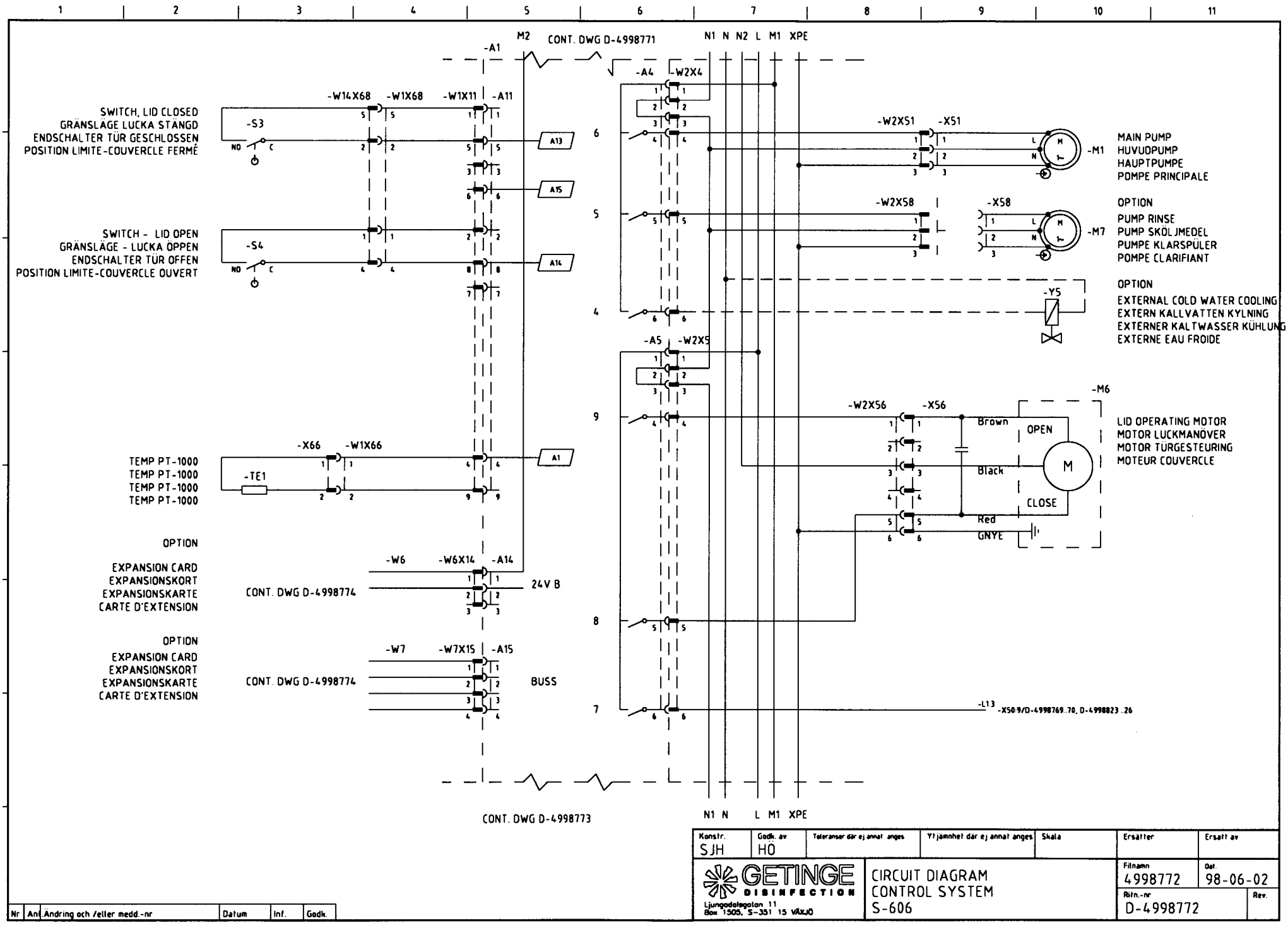
Konstr.	Godk. av	Toleranser där ej annat anges	Ytjämnhet där ej annat anges	Skala	Ersätter	Ersatt av
SJN	HÖ					

GETINGE DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ

CIRCUIT DIAGRAM
CONTROL SYSTEM
S-606

Filnamn	Dat.
4998771	98-06-02
Ritn.-nr	Rev.
D-4998771	

Nr	Ant	Ändring och /eller medd.-nr	Datum	Inf.	Godk.



Konstr.	Godk. av	Toleranser där ej annat anges	Ytjämnhet där ej annat anges	Skala	Ersätter	Ersatt av
SJH	HO					

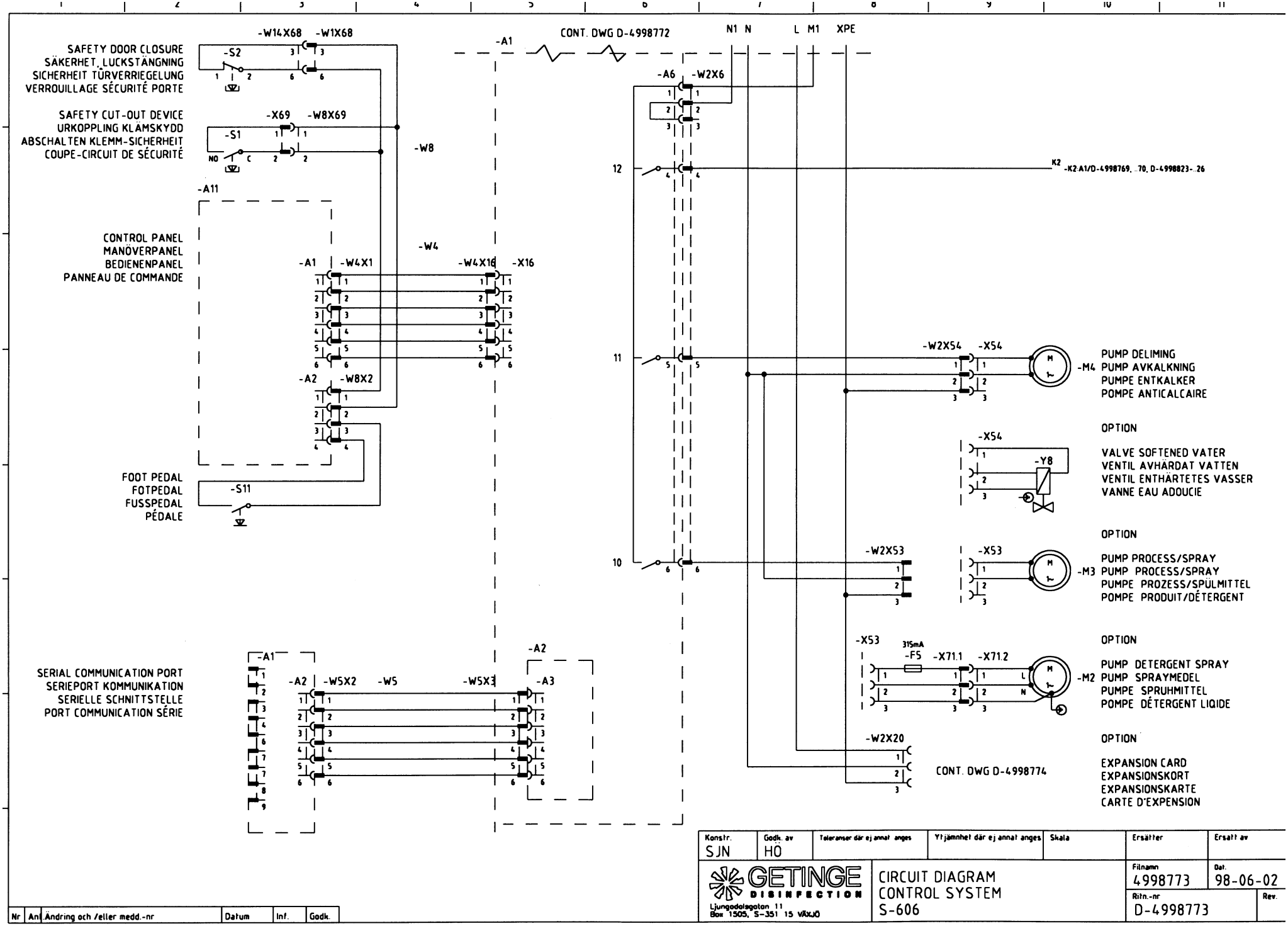
GETINGE DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ

CIRCUIT DIAGRAM
CONTROL SYSTEM
S-606

Filnamn	Dat.
4998772	98-06-02

Ritn.-nr	Rev.
D-4998772	

Nr	Ant.	Ändring och /eller medd.-nr	Datum	Inf.	Godk.



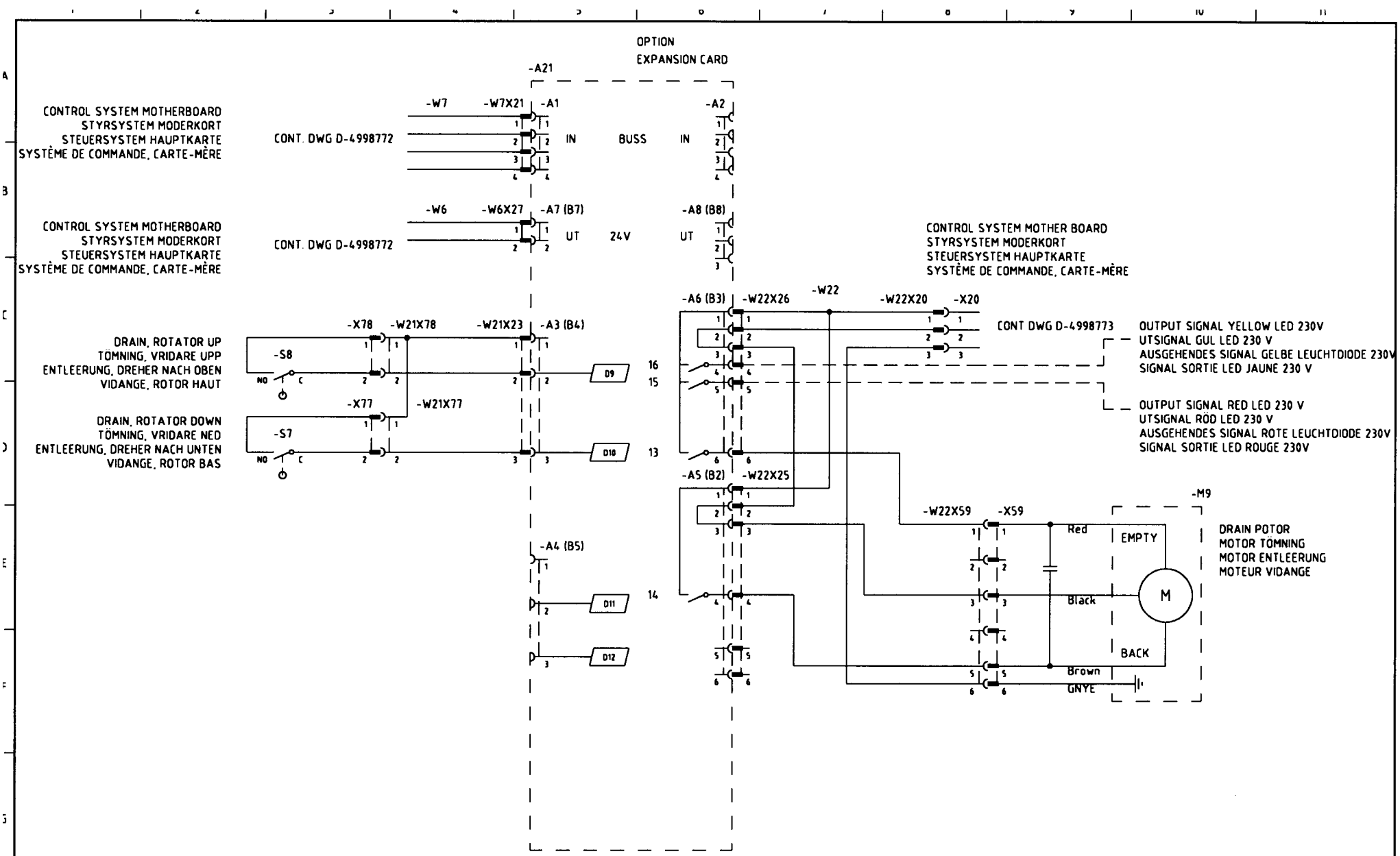
Konstr.	Godk. av	Toleranser där ej annat anges	Ytjämnhet där ej annat anges	Skala	Ersätter	Ersatt av
SJN	HÖ					

GETINGE DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ

CIRCUIT DIAGRAM
CONTROL SYSTEM
S-606

Filnamn	Dat.
4998773	98-06-02
Ritn.-nr	Rev.
D-4998773	

Nr	Ant	Ändring och /eller medd.-nr	Datum	Inf.	Godk.



Konstr.	Godk. av	Toleranser där ej annat anges	Yt jämnhet där ej annat anges	Skala	Ersätter	Ersatt av
SJN	HÖ					

GETINGE DISINFECTION
Ljungadalsgatan 11
Box 1505, S-351 15 VÄXJÖ

CIRCUIT DIAGRAM
CONTROL SYSTEM
EXP CARD OPTION , S-606

Filnamn	Dat.
4998774	98-06-02
Ritn.-nr	Rev.
D-4998774	

Nr	Ant.	Ändring och /eller medd.-nr	Datum	Inf.	Godk.

GETINGE
DISINFECTION

Den här produkten är tillverkad av:
GETINGE DISINFECTION AB, Ljungadalsgatan 11, Box 1505, 351 15 Växjö, Sweden